

PRODUCT DATA SHEET

Sika ThermoCoat®-1/3

ONE-COMPONENT CEMENTITIOUS MORTAR FOR BONDING AND FINISHING OF THERMO-INSULATING PANELS FOR EXTERNAL INSULATING SYSTEM

DESCRIPTION

Sika ThermoCoat®-1/3 is a premixed compound of cement and sand with selected grain size, containing a large amount of resins and special additives. After hydration, the mixture is workable and highly thixotropic. It ensures a perfect adhesion on traditional construction materials.

USES

Sika ThermoCoat®-1/3 is part of Sika® ThermoCoat ET-ICS system.

Sika ThermoCoat®-1/3 is a cementitious mortar designed specially for external insulation bonding systems on:

- cement plaster;
 - cementitious and lime mortar;
 - concrete;
 - concrete blocks;
 - suitable as smoothing layer of cementitious plaster;
- Sika ThermoCoat®-1/3 also ensures adhesion on thermal insulation panels in case of:
- ceramic flooring on acoustic sheets;
 - attic floors;
 - interior walls;
 - curtain walls.

Also suitable as a reinforced render with glass fiber grid embedded for External Thermal Insulation Composite System (ETICS).

CHARACTERISTICS / ADVANTAGES

Sika ThermoCoat®-1/3 is suitable for bonding of thermal insulation panels made of polystyrene, polyurethane, cork, glass fibers, mineral fibers, etc. on masonry and concrete surfaces due to high amount of synthetic resins.

Also suitable as a reinforced render with glass fiber grid embedded for External Thermal Insulation Composite System (ETICS).

Once hardened, Sika ThermoCoat®-1/3 does not shrink.

APPROVALS / CERTIFICATES

Sika ThermoCoat®-1/3 complies with the requirements of ETAG 004 according to ETA 11/0358 technical approval.

PRODUCT INFORMATION

Packaging	25 kg bag on 1350 kg Europallets
Appearance / Colour	Grey and white powder
Shelf life	12 months from date of production
Storage conditions	The product must be stored properly in original sealed packaging, complying with all usual cement product storage requirements.
Density	1.3 - 1.5 kg/l
Maximum Grain Size	D _{max} = 0.6 mm
pH-Value	> 10 (mixture)

TECHNICAL INFORMATION

Compressive Strength		7 days	28 days
	Grey	~ 5 MPa	~ 8 MPa
	White	~ 4 MPa	~ 7 MPa
Tensile Adhesion Strength	Concrete / brick masonry	> 1 MPa	(SATTEC)
	Polystyrene (EPS)	> 0.14 MPa	
Service Temperature	-30°C min. / +90°C max.		

APPLICATION INFORMATION

Mixing Ratio	Grey: 6.25 l of water per 25 kg bag. White: 6.5 l of water per 25 kg bag. Note: for dab bonding the amount of water must be 1l lower than values declared.		
Consumption	Thermal insulation panels	2 - 4 kg/m ²	
	Finishing	1,3 - 1,5 kg/m ² per mm of thickness	
Ambient Air Temperature	+ 5°C min. / + 35°C max.		
Substrate Temperature	+ 5°C min. / + 35°C max.		
Waiting Time / Overcoating	10 min to 30 min depending on environmental condition		

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, tough, free from loose and friable material and fully cured (6 months). Repairs to the substrate and filling of blowholes/voids must be carried out using appropriate products from the SikaRep® range of materials. The substrate must be free from poor adhesion coatings or materials.

MIXING

Mix Sika ThermoCoat®-1/3 with 6 / 6.5 litres of water using a low speed electric stirrer. Mix continuously for 3 minutes until a uniform mix has been achieved. Stir briefly before use.

APPLICATION

As adhesive

Apply the product on the backside of insulation panel. For large size thermal insulation panels, full surface

bonding is required. In this case, apply Sika ThermoCoat®-1/3 evenly using a notched trowel. If spot/dab bonding is required, i.e. for small size insulation panels, use a trowel. After having applied the panel, press using a plastering trowel to ensure a perfect adhesion. Check alignment of the panels using a plasterer feather edge.

As insulation panel render

Once the product is hardened, apply evenly a first layer of Sika ThermoCoat®-1/3 on the surface of thermal insulation panels. Place the fibre grid Sika® ThermoCoat 4 onto the surface of the fresh product and ensure an overlapping of > 10 cm. Apply a second layer of Sika ThermoCoat®-1/3 onto the grid. The second coat of Sika ThermoCoat®-1/3 must embed the grid and must be even and smooth to get easier the application of the top coat.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

Sika ThermoCoat®-1/3 can not be used for:

- bonding of thermal insulation panels on metal and highly flexible substrates;
- bonding of thermal insulation panels with impervious and continuous surface film;
- bonding of thermal insulation panels on weak substrate (in this case fix the panel mechanically).

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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